



Information Technology Enterprise

*Presentation to CIO Council
Data Center Facility Located at
Joint Forces Headquarters (JFHQ)
Johnston, Iowa
July 28, 2005*

**Joint Forces Headquarters,
Johnston, Iowa**



**JFHQ Data Center – Just
Before Completion**



Benefits to customers

- Excellent physical security
- Server room built with redundancy
- Every server in every rack has capability of multiple electrical paths
- Meets COOP/COG requirements

Environmental Capacities

- Electrical
 - 400 KW UPS
 - Two 200 KW Power Distribution Units
 - One Remote Distribution Cabinet
 - Building generators (full redundancy implementation in FY06)
- Mechanical
 - Four module chillers – 200 tons
 - Three 20 ton and one 15 ton air handling units
- Fire Suppression
 - Pre-action dual zone sprinkler system
- Environmental Management
 - All environmental systems have electronic monitoring capabilities
 - Remote monitoring implementation in FY 06

Standard Server Assumptions

- Racks will be no more than 85 inches tall X 27 inches wide X 36 inches deep
- Racks will be powered by dual power strips with 110 volts at 20 amps
- A KVM box is shared between every 2 cabinets
- Power will be backed up through separate circuits back to a UPS
- A building generator will back up local power to the facility
- A single 10/100 Ethernet RJ45 connector
- Power strips will not be "daisy chained"
- Hubs and switches will count toward maximum connections and total "U"
- Racks will be wired for compliance and neatly organized

DAS-ITE Responsibilities

- Maintain an environmentally controlled, secure data center facility
- Manage a service intake process, including wire and cable management processes and standards for customer agency equipment
- Provide 36 or 42 U racks and manage floor space allocation
- Provide networking services to customer agency equipment
- Provide customer agency access to the facility as negotiated within the SLA
- Provide customer agency with building and data center facility access procedures
- Provide 24/7 help desk services

Customer Responsibilities

- Protect data housed on customer agency servers
- For customer agency owned and managed servers:
 - Installation, configuration and ongoing maintenance of server hardware, software and UPS components
 - Maintain server and application licensing
 - For Internet direct connections, work with the ICN to provide such services
- Maintain documentation of all hardware and software installed in the assigned rack(s)
- Utilize DAS-ITE wiring and cabling practices to ensure uniformity and organization

Additional Services

- Servers requiring power other than 110V @ 20A will pay a surcharge for electrical and cooling
- Servers requiring other network services will be quoted separately
- Blade servers will be charged a premium
- Any additional services will pay time and materials for installation in addition to extra ongoing costs
- Data Storage Area Network (SAN)
- Data Backup (IBM's Tivoli Storage Manager-TSM)

Pricing Components

- Facility rent
- Facility utilities
 - Electrical Power
 - Cooling
 - Generator capability
- Equipment
 - Cabinets
- Network
 - Hardware/Software (switches, firewall, proxy, intrusion detection-IDS, monitoring systems)
 - Cable/Wiring
- Personnel
- General Administration

FY 06 Pricing

Monthly Pricing Ranges		Comparable Commercial Services
ITE Whole Rack	\$654 - \$894	\$1,400
ITE "per U" Space	\$19 - \$27	\$300 - \$550
User provided rack	\$595 - \$1,170	\$800+
(Start up costs not included)		